

Thermal Control Film for Spacecraft

Abstract:

5 A thermal control film for use in spacecraft comprising a multi-layer
interference filter adapted to exhibit high reflectivity to solar radiation, low
absorptivity across the microwave spectrum and high emissivity in the far infra-
red is provided. The film is free from metal and extends over the active face of
an antenna carried by the spacecraft. Such a film exhibits the desired thermo-
10 optical properties for a thermal control radiator surface and can be used over
the active face of a communications or radar antenna without disrupting the RF
signal.

Figure 5

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